UNIVERSITY
OF MICHIGAN

FEB 18 1952

SCIENCE
LIBRARY

ECONOMIC BOTANY

Devoted to Applied Botany and Plant Utilization

Vol. 6 JANUARY–MARCH, 1952 No. 1

Semi-Popular Articles

The Duboisias of Australia — COLIN BARNARD

Some Observations on the Cultivation of Kenaf — A. E. HAARER

Supplementary and Emergency Food Plants of West Africa — F. R. IRVINE

Simmondsia or Jojoba—A Problem in Economic Botany — N. T. MIROV

Propagation of Strophanthus — J. L. CREECH AND R. F. DOWELE

Land Development and Large Scale Food Production in East Africa by the Overseas Food Corporation — A. H. BUNTING

Technical Literature Review

Breeding Tobacco for Disease Resistance — W. D. VALLEAU

Utilization Abstracts

Conifer Foliage Oils. Carnauba Substitutes. African Oil Palms in Honduras. Stillingia Oil. Antibiotics from Higher Plants. Riboflavin. May Rose. Rutin. White Potato Starch.

Book Reviews

Crops in Peace and War—The Yearbook of Agriculture 1950-51. Farming and Gardening in the Bible. Distribution of British Pharmacopoeial Drug Plants and Their Substitutes Growing in India. Seaweeds and Their Uses.

ECONOMIC BOTANY

Devoted to Applied Botany and Plant Utilization

Founded, managed, edited and published by

EDMUND H. FULLING

at

The New York Botanical Garden

Advisory Editors

DR. RALPH HOLT CHENEY
Brooklyn College

DR. WILLIAM J. ROBBINS
The New York Botanical Garden

DR. ALBERT F. HILL
Harvard University

DR. S. F. STANFORD
College of the Pacific

DR. H. W. YOUNGKEN
Philadelphia College of Pharmacy

Economic Botany is published quarterly. Subscription price per annual volume everywhere is $5.00; price per single copy is $1.50. Subscriptions and correspondence may be sent to the office of publication, 111 East Chestnut Street, Lancaster, Pa., or to Economic Botany, The New York Botanical Garden, New York 58, N. Y., and checks should be made payable to Economic Botany. Typescripts should be double-spaced. Photographs will be considered only if of high photographic quality.

Published Quarterly one volume per year, January, April, July and October, at 111 East Chestnut Street, Lancaster, Pa.

Entered as second-class matter March 13, 1947, at the post office at Lancaster, Pa., under the act of March 3, 1879.

ECONOMIC BOTANY

Devoted to Applied Botany and Plant Utilization

Volume VI
1952

Founded, managed, edited and published by
EDMUND H. FULLING
at
The New York Botanical Garden

Advisory Editors

DR. RALPH HOLT CHENEY
Brooklyn College

DR. ALBERT F. HILL
Harvard University

DR. WILLIAM J. ROBBINS
The New York Botanical Garden

DR. E. E. STANFORD
College of the Pacific

DR. H. W. YOUNGKEN
Massachusetts College of Pharmacy

Published Quarterly
Printed at 111 East Chestnut Street,
Lancaster, Pa.

QK
1
F215
Science Library

CONTENTS

Semi-Popular Articles

The Duboisias of Australia 3
Some Observations on the Cultivation of Kenaf 18
Supplementary and Emergency Food Plants of West Africa 23
Simmondsia or Jojoba—A Problem in Economic Botany 41
Propagation of Strophanthus 48
Land Development and Large Scale Food Production in East Africa by the Overseas Food Corporation 55
Wild Rice—Indian Food and a Modern Delicacy 107
Sugar-Cane Breeding in Java 143
The Tobacco Industry in Australia 151
Hops—Their Botany, History, Production and Utilization 160
Breeding Winter Barley for Hardiness and Disease Resistance 176
Root Starches Other than Those of White and Sweet Potato 211
Adlay or Job's Tears—A Cereal of Potentially Greater Economic Importance 216
Grapefruit and Pummelo 228
Citrus in West Africa, with Special Reference to Liberia 246
The Use of Wild Plants in Tropical South America 252
Plant Breeding and the Vegetable Industry 315
Indian Podophyllum 342
Recent Developments in Essential Oil Production 355
Carnauba Wax—Product of a Brazilian Palm 379

Technical Literature Reviews

Breeding Tobacco for Disease Resistance 69
Microbial Synthesis of Riboflavin .. 185
Breeding and Establishing New Trees Resistant to Disease 271
Plant Disease Control with Antibiotics 294
Antibacterial Substances from Lichens 402

Utilization Abstracts

Conifer Foliage Oils 17
Carnauba Substitutes 17
African Oil Palms in Honduras ... 22
Stillingia Oil 22
Antibiotics from Higher Plants 47
Riboflavin 54
May Rose 54
Rutin 68
White-Potato Starch 102
Drugs of Microbial Origin 159
Castor Oil 175
Sweet-Potato Starch 215
Kenaf in Florida 215
Diatoms 227
Furfural 245
Cortisone from Sisal Waste 245
Scabrin 251
Creosote Bush 270
Coconut Chips 270
Waxes 270
Domestic Essential Oils 341
Ash Baseball Bats 341
Sugar-Cane Bagasse 354
Witloof Chicory 354
Glucuronic Acid 378
California Lemons 378
Vicara 378
Soybeans 401
Earliest Banana Culture 401

Book Reviews

Crops in Peace and War 103
Farming and Gardening in the Bible 103
Distribution of British Pharmacopoeidal Drug Plants and Their Substitutes Growing in India ... 104
Seaweeds and Their Uses 104
The Drug Plants of Illinois 206
The Molds and Man 206
Flowering Trees of the Caribbean .. 206
Potter's Cyclopaedia of Botanical Drugs and Preparations 206
Medical Botany 207
Plants for Man 207
Economic Botany 208
The Origin, Variation, Immunity and Breeding of Cultivated Plants 309
The Chemistry and Technology of Food and Food Products 311
A History of the Hemp Industry in Kentucky 311
Soybeans and Soybean Products .. 312
Botany of Sugarcane 407
The Essential Oils 407
Green Medicine 408
Field Crops 408
Plants of the Bible 408